

IN THE CLAIMS:

Please replace the text of claims 1-11 with the following text:

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1. A relay server comprising:

communicating means for communicating with a plurality of network devices and a different relay server; and

connection information holding means for holding connection information of the plurality of network devices capable of communicating by the communicating means;

wherein the communicating means refers to the connection information based on a connection demand from one of the plurality of network devices, and relays communication to another one of the plurality of network devices via the different relay server.

2. The relay server according to claim 1 wherein the communicating means receives the connection information the different relay server holds and stores the connection information in the connection information holding means.

3. A communication system comprising:

a plurality of network devices; and

a plurality of relay servers connected to the plurality of network devices by a network,

wherein one of the plurality of network devices establishes a communication path with one of the plurality of relay servers and carries out communication by performing a connection demand with another one of the plurality of network devices, and

the one relay server relays the communication with the other network device via at least one other relay server of the plurality of relay servers based on the connection demand from the one network device.

4. The communication system according to claim 3 wherein each of the plurality of relay servers obtains connection information of each of the plurality of network devices, each of the plurality of network devices is connected to and capable of communicating with each of the plurality of relay servers, and each of the plurality of relay servers decides which relay server communication is relayed.

5. A relay server comprising:

communicating means for communicating with a plurality of network devices and a different relay server; and

connection information holding means for holding connection information of the network devices which are capable of communicating,

wherein the communicating means renews the connection information based on a demand from one of the plurality of network devices, and notifies the renewed connection information to the different relay server based on renewal of the connection information.

6. A relay server comprising:

communicating means for communicating with a plurality of network devices and a different relay server; and

connection information holding means for holding connection information of the plurality of network devices which are capable of communicating,

wherein the communicating means renews the connection information within the connection information holding means based on renewal notification of connection information from the different relay server.

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7. A communication system comprising:  
a plurality of network devices; and  
a plurality of relay servers connected to the plurality of network devices by a network,

wherein one of the plurality of network devices establishes a communication path with one of the plurality of relay servers and carries out communication by performing a connection demand with another one of the plurality of network devices, and

the one relay server holds connection information of the plurality of network devices which are capable of communicating, renews the connection information based on the connection demand, notifies the renewed connection information to different relay servers of the plurality of relay servers, and renews the connection information based on renewal notification of connection information transmitted from the different relay servers.

8. A communication system comprising:  
a plurality of network devices; and  
a plurality of relay servers connected to the plurality of network devices by a network,

a data base server for holding connection information of the plurality of network devices and providing the connection information to the plurality of relay servers,

wherein one of the plurality of network devices establishes a communication path with one of the plurality of relay servers, and carries out

communication by performing a connection demand with another one of the plurality of network devices, and

wherein the one relay server renews the connection information based on the connection demand from the one network device, the one relay server causes the data base server to hold the renewed connection information.

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9. A facsimiles system comprising:

a facsimile machine connected to an inner network;

a gateway device for connecting the inner network to an outer network; and

a plurality of relay servers connected to the outer network,

wherein the facsimile machine makes connection to one of the plurality of relay servers in advance via the gateway device, and then transmits or receives an image, and

the one relay server relays communication or the image between the gateway device and another gateway device by carrying out the communication with one or a plurality of the gateway devices and one or a plurality of different relay servers.

10. The facsimiles system according to claim 9 wherein the one relay server manages the facsimile machine to be connected thereto in accordance with identifying information specific to the facsimile machine.

11. The facsimile system according to claim 9 wherein a plurality of facsimile machines within the inner network and another inner network can be connected to the one relay server via the gateway device and the another gateway device, and the one relay server manages each of the plurality of

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facsimile machines to be connected thereto in accordance with identifying information specific to each of the plurality of facsimile machines.

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Please add the following new claims:

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12. (Newly Added) A method for communicating between a plurality of network devices and a plurality of relay servers comprising:

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establishing a communication path between each of a plurality of network devices and a plurality of relay servers; and

relaying a communication between one of the plurality network devices and another one of the plurality of network devices by the one of the plurality of relay servers via at least one other relay server of the plurality of relay servers based on a connection demand to the another network device from the one network device.

13. (Newly Added). The communication method according to claim 12 further comprising obtaining connection information of the plurality of network devices established with the communication path to each of the plurality of relay servers, and deciding which of the other relay servers communication is relayed.

14. (Newly Added) The communication method according to claim 12, further comprising holding the connection information of the plurality of network devices established with the communication path and notifying the connection information to the another relay server, and renewing the connection information based on the notification from the another relay server.

15. (Newly Added) A method for a relay server to communicate between a plurality of network devices and a plurality of relay servers comprising:

establishing a communication path based on a connection demand from the plurality of the network devices; and

relaying the communication between one of the plurality of network devices and the another one of the plurality network devices via at least one other relay server of the plurality relay servers based on the connection demand to the another network device from the one network device.

16. (Newly Added) The communication method according to claim 15 further comprising:

obtaining the connection information of the plurality of network devices established with the communication path to the another relay server, and

deciding which the plurality of relay servers to relay..

17. (Newly Added) The communication method according to claim 15, comprising:

holding the connection information of the plurality of network devices established with the communication path;

notifying the connection information the another relay server; and

renewing the connection information based on the notification from the another relay server.

18. (Newly Added) A relay server comprising:

a communicating device communicating with a plurality of network devices and a different relay server; and

connection information holding device holding connection information of the plurality of network devices capable of communicating by the communicating device;

wherein the communicating device refers to the connection information based on a connection demand from one of the plurality of network devices, and relays communication to another one of the plurality of network devices via the different relay server.

19. (Newly Added) The relay server according to claim 18 wherein the communicating device receives the connection information the different relay server holds and stores the connection information in the connection information holding device.

20. (Newly Added) The relay server according to claim 18 wherein each of the plurality of relay servers obtains connection information of each of the plurality of network devices, each of the plurality of network devices is connected to and capable of communicating with the each of the plurality of relay servers, and each of the plurality of relay servers decides which relay server communication is relayed.